

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

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PATENT NO. : 7,683,454
APPLICATION NO. : 10/762,592
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INVENTOR(S) : Jean-Baptiste Quoirin et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 1, line 41 should read:
--direction of arrows I illustrated in Figs. 1A and 1B in a--.

Column 4, line 14 should read:
--indicated by arrows I is likely to flow horizontally from the--.

Col 8, claim 22, line 42 should read:
--extending through the substrate being contacted by at--.
claim 26, line 59 should read:
--The IGBT transistor of claim 21, wherein each of the--.

Col. 9, claim 31, line 13, should read:
--through an entire thickness of the semiconductor chip--.

Col. 10, claim 44, line 25, should read:
--contacts extending through the substrate, wherein the first--.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

James H. Morris
WOLF, GREENFIELD & SACKS, P.C.
600 Atlantic Avenue
Boston, Massachusetts 02210-2206